

**Radio-frequency identification tag of magnetic memory tag state information****Publication number:** CN1255997**Publication date:** 2000-06-07**Inventor:** VEGA VICTOR A (US); EBERHARDT NOEL H (US)**Applicant:** MOTOROLA INC (US)**Classification:****- international:** G06K7/00; G06K19/07; G06K19/077; G08B13/24;  
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A radio frequency identification tag system (10) utilizes a radio frequency identification tag (16) that includes stored tag information. The tag includes an antenna element (30) and a common electrode (28). The antenna element electrostatically receives an exciter signal (34) from a proximately-located electrostatic exciter (12). Upon receiving the exciter signal, the tag becomes energized, thereby causing it to generate a read signal (36) based on the stored tag information. The antenna element then electrostatically sends the read signal to a proximately-located reader (14), which detects the stored tag information. In addition, exactly one of the tag common electrode and the tag antenna element is arranged to magnetically store tag state information. The tag state information represents exactly one state of two possible states and is read by a proximately-located magnetic reader (18).

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